

Fig. 1A

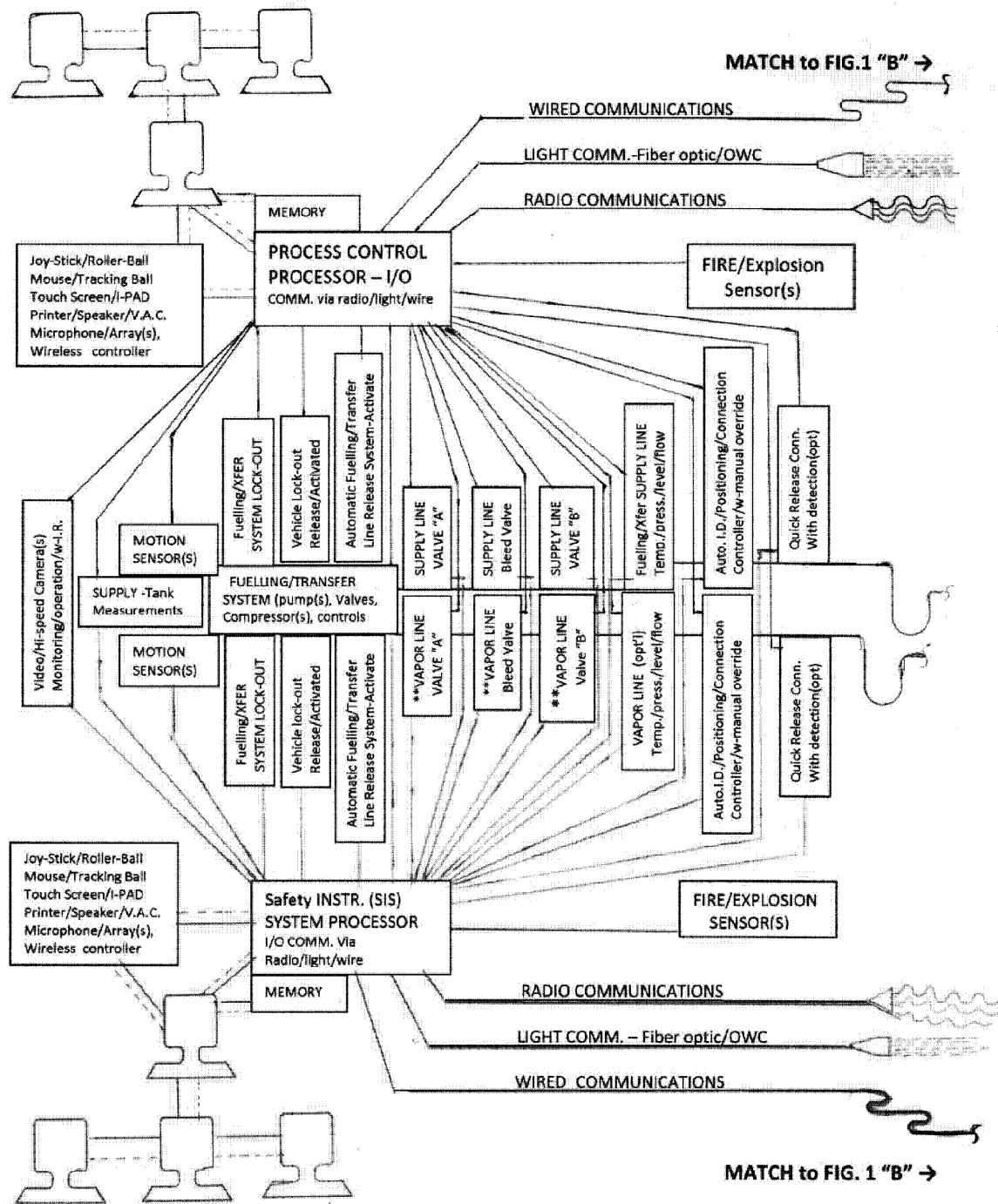


Fig. 1B

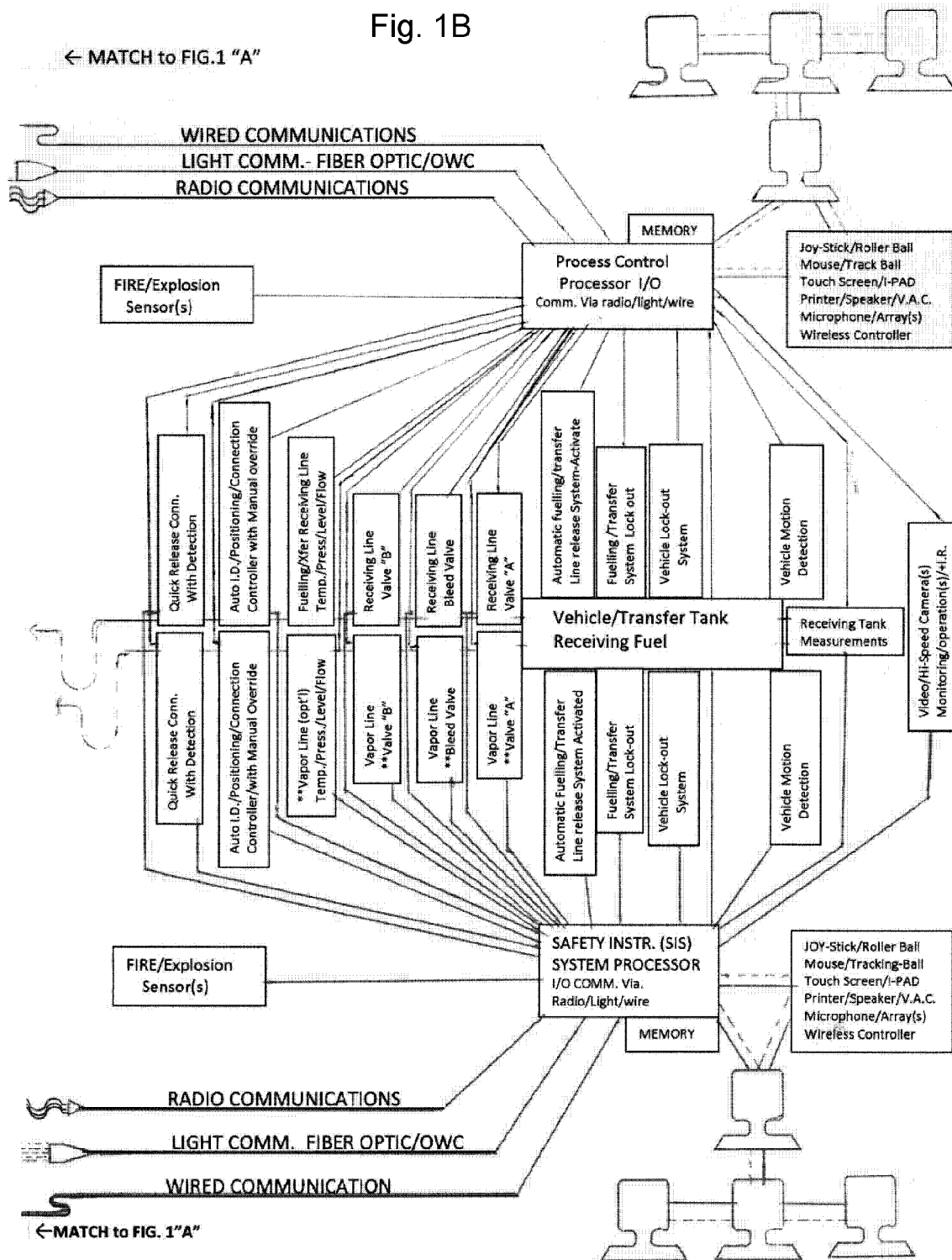
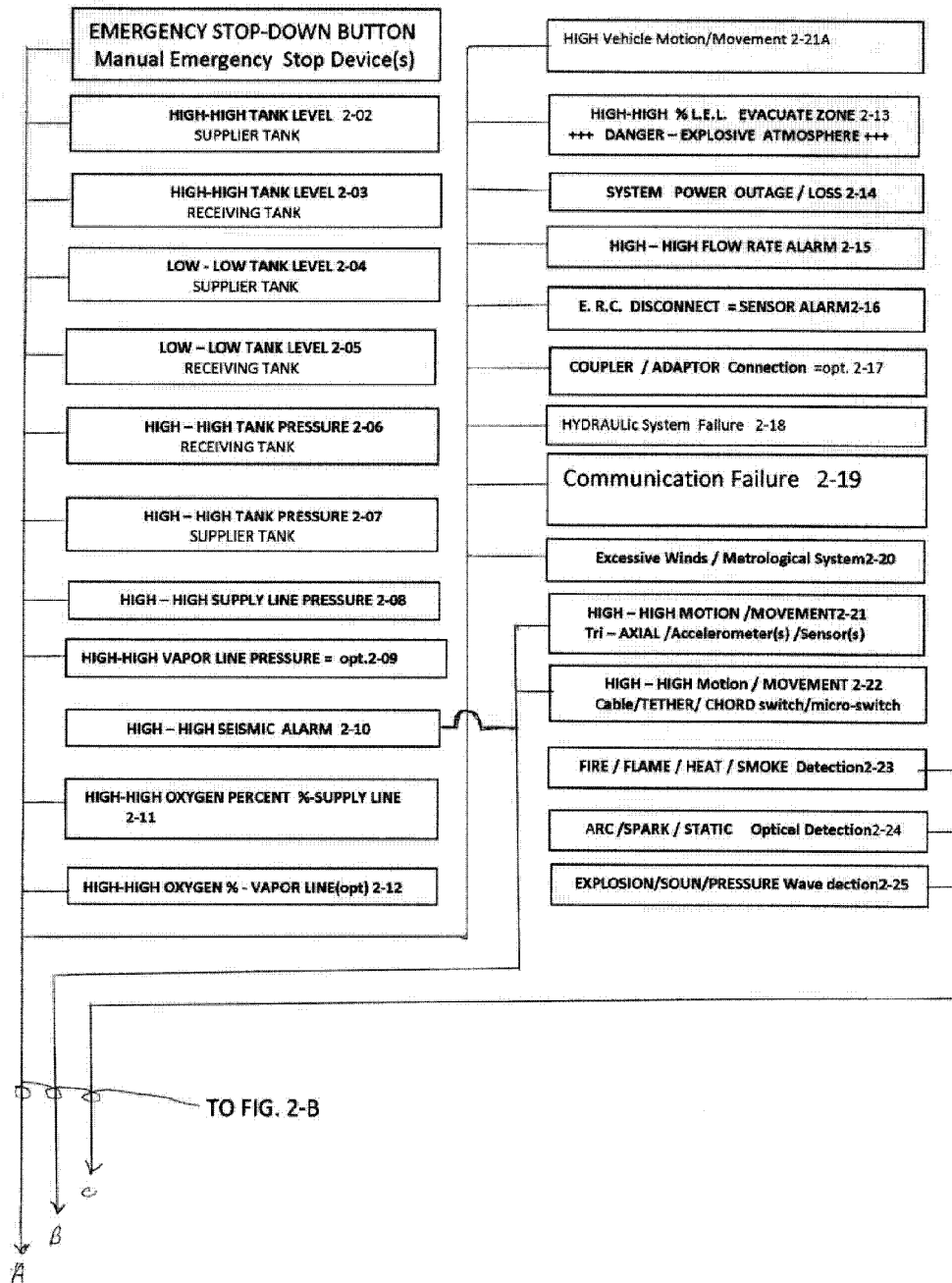


Fig. 2A

Process Control Safety Emergency Stop/Shut-down INPUTS

Process Control System ; Safety Emergency Stop/Shut-down ;Power & Processor

Fig. 2B

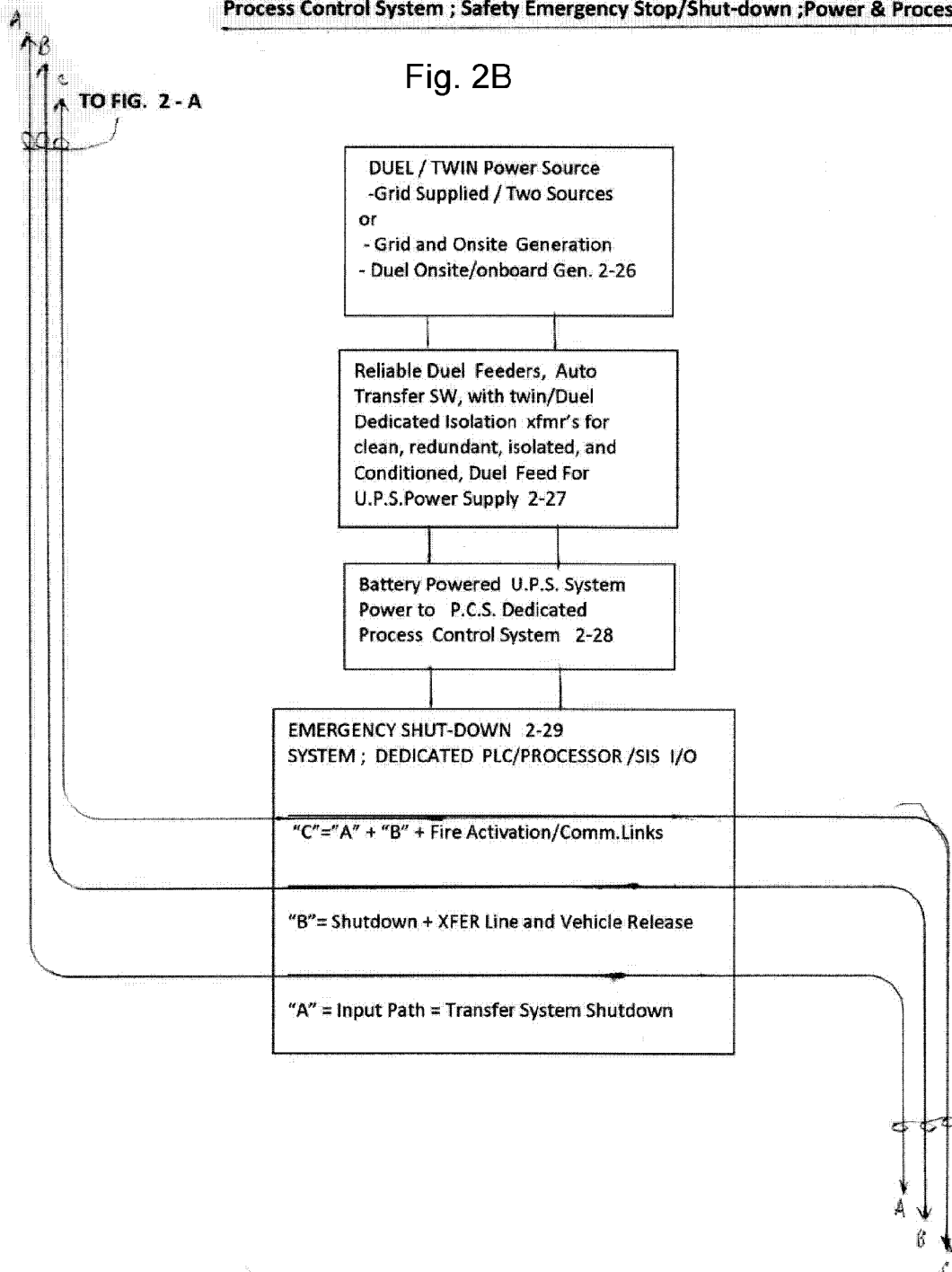


Fig. 3A

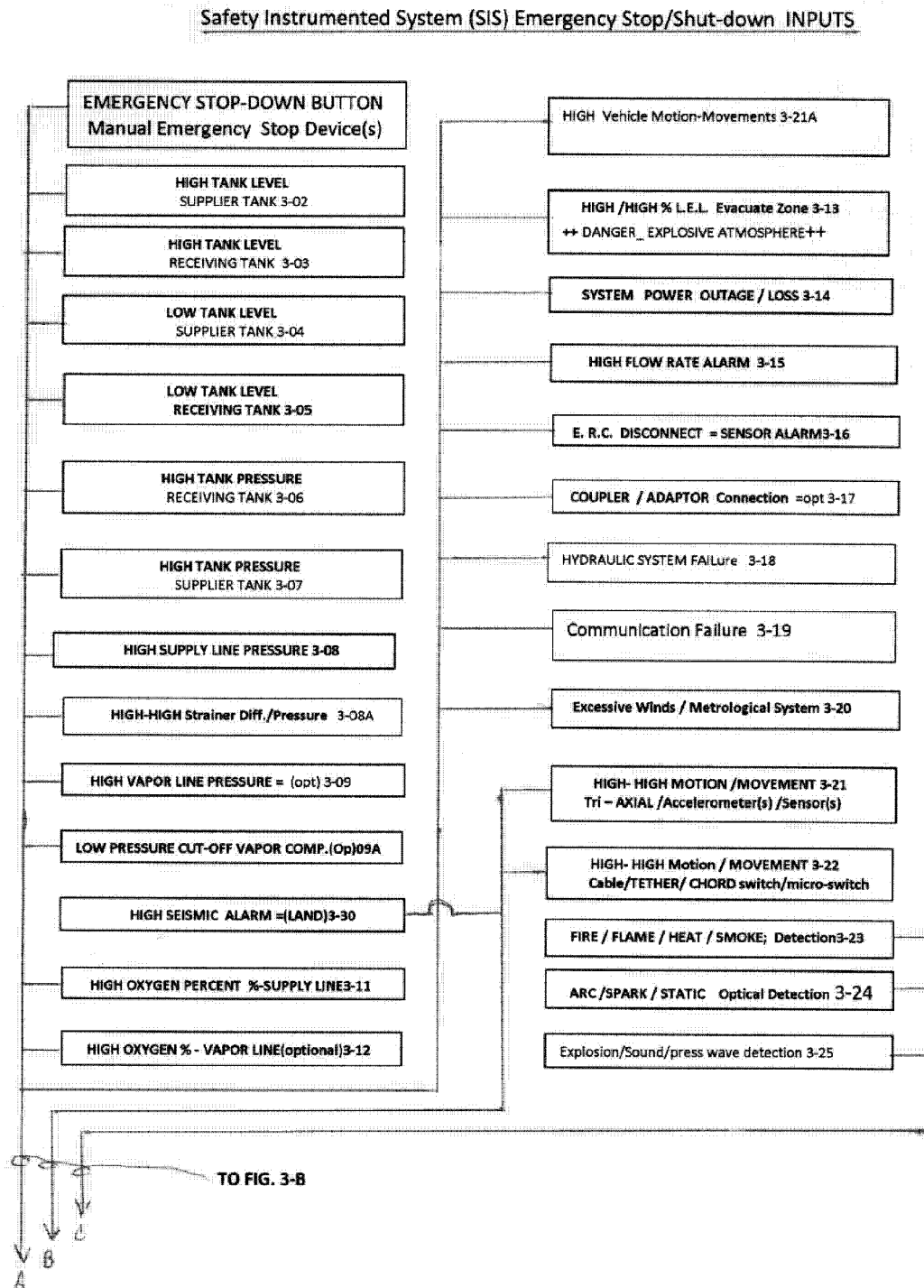


Fig. 3B

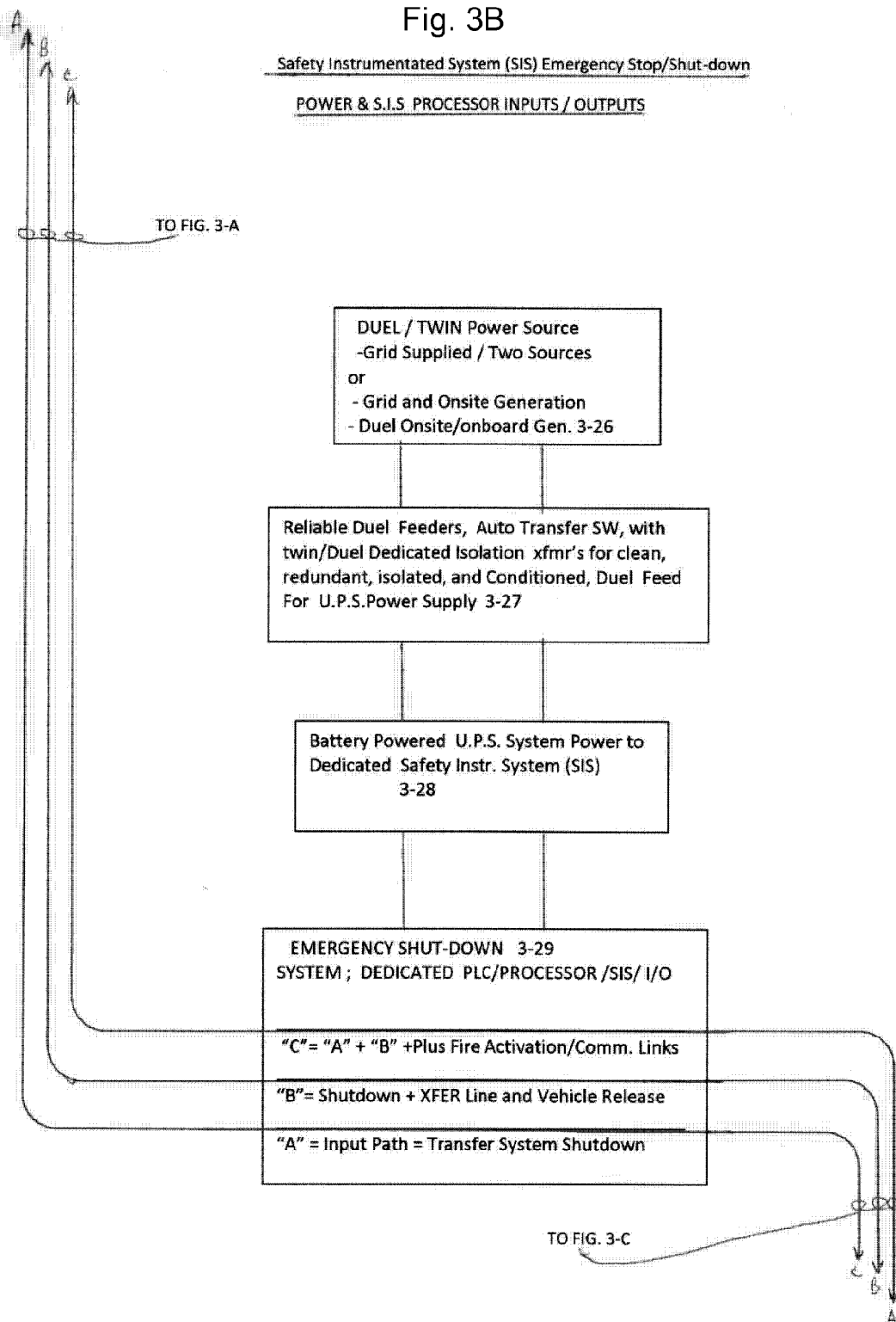
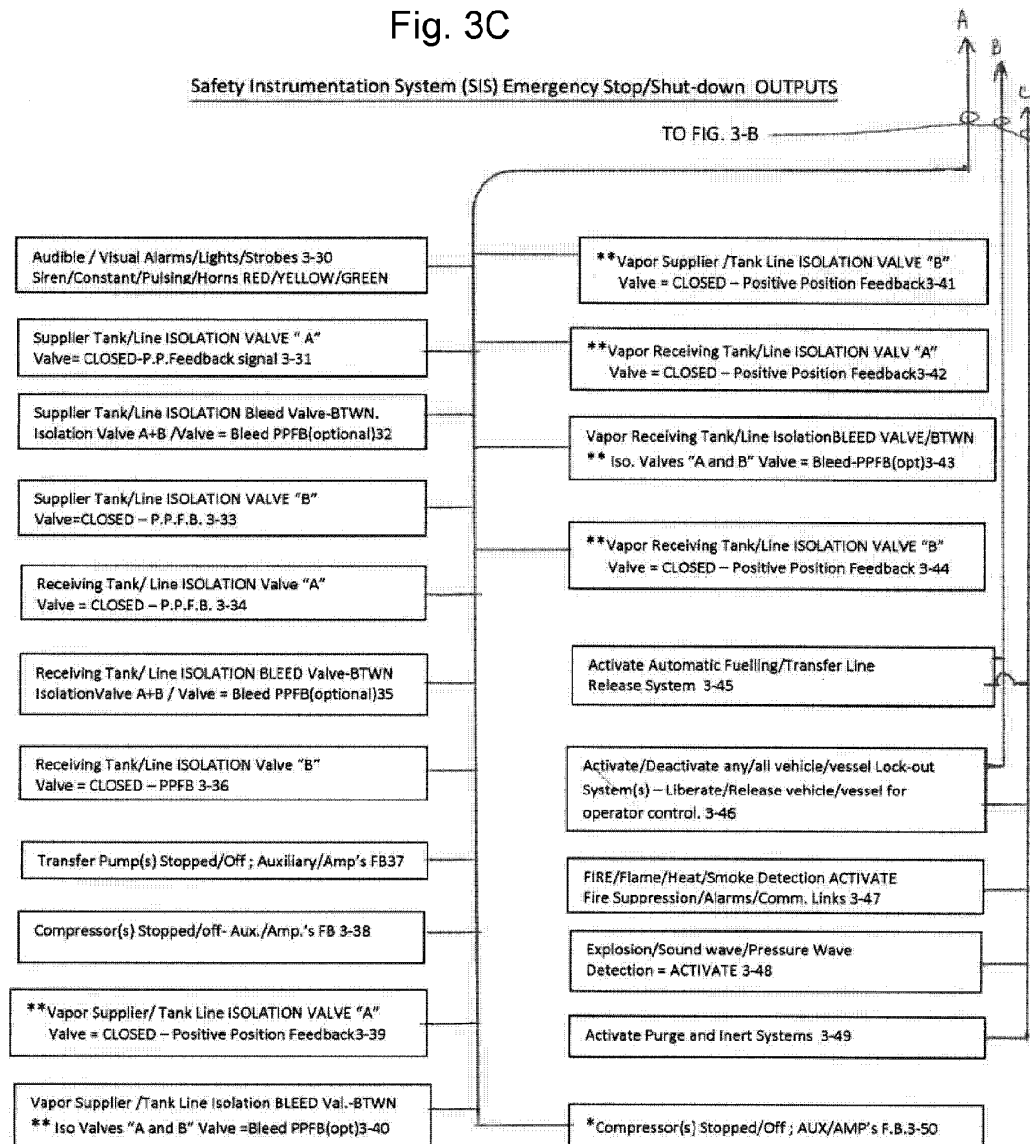
Safety Instrumented System (SIS) Emergency Stop/Shut-downPOWER & S.I.S. PROCESSOR INPUTS / OUTPUTS

Fig. 3C



*System specific; Vapor Mgmt./Headspace push uses compressor/suction/pressure, with/with-out pump.

** For use on Systems with Vapor Mgmt.; necessary equipment to install, but application specific.

Isolation Bleed Valve(s) may be pressure/self-actuated; and or optional/CS/PLC controlled w/PPFB, / Pressure Relief Valve/ P.R.V.

All actions are individually identifiable and all inputs/outputs are permanently recorded with time and date stamp for future review.

Optional =DUEL Optional / PPFB = Positive Position Feedback / FB = Feedback / AUX.= Auxiliary Contactor / Amp's = Ampere's Draw

Fig. 4A

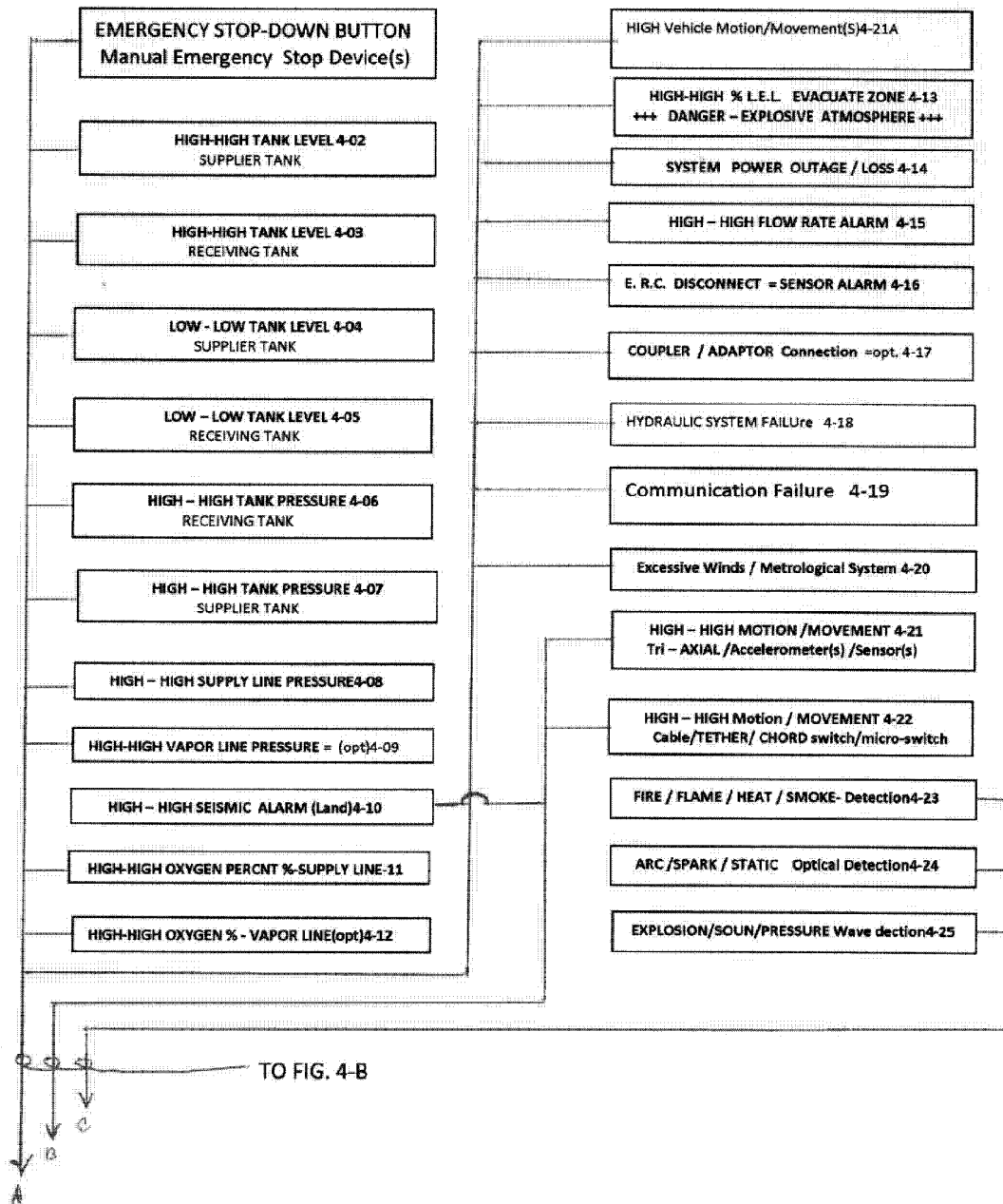
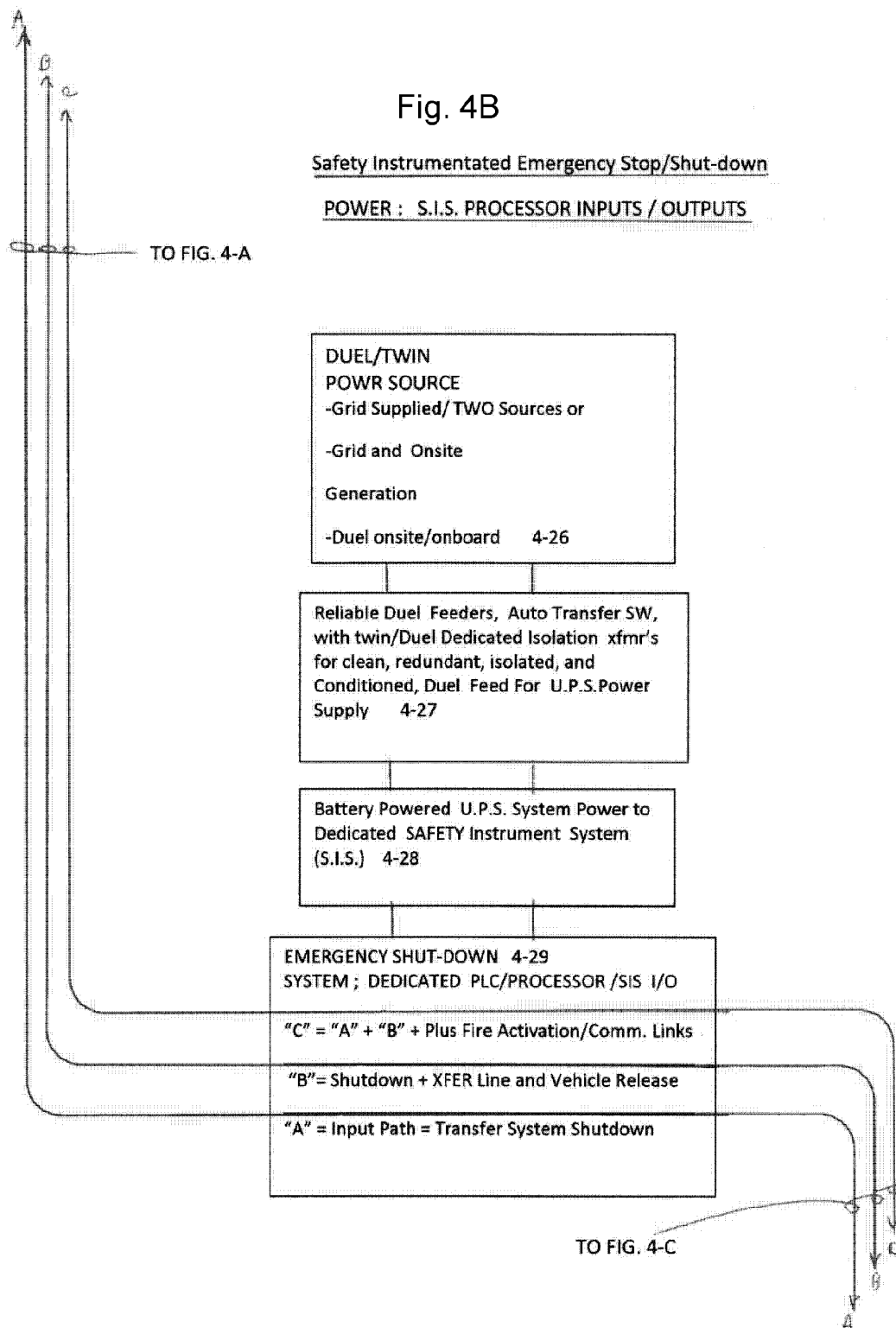
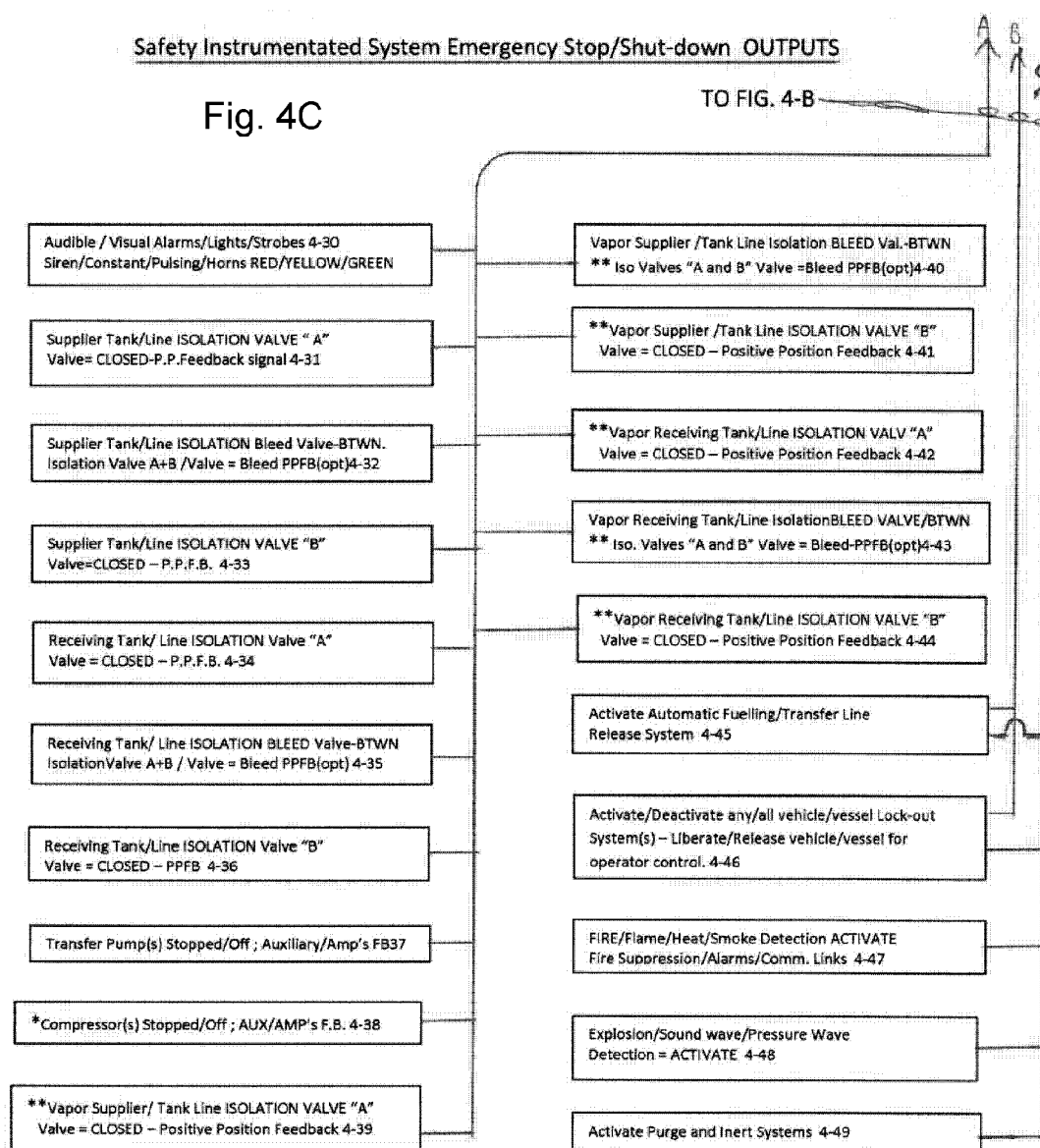
S.I.S. Safety Emergency Stop/Shut-down INPUTS Instrumentated

Fig. 4B

Safety Instrumentated Emergency Stop/Shut-downPOWER : S.I.S. PROCESSOR INPUTS / OUTPUTS

Safety Instrumentated System Emergency Stop/Shut-down OUTPUTS

Fig. 4C



*System specific; Vapor Mgmt./Headspace push uses compressor/suction/pressure, with/with-out pump.

** For use on Systems with Vapor Mgmt.; necessary equipment to install, but application specific.

Isolation Bleed Valve(s) may be pressure/self-actuated; and or optional/CS/PLC controlled w/PPFB, / Pressure Relief Valve/ P.R.V.

All actions are individually Identifiable and all inputs/outputs are permanently recorded with time and date stamp for future review.

Optional =DUEL Optional / PPFB = Positive Position Feedback / FB = Feedback / AUX.= Auxiliary Contactor / Amp's = Ampere's Draw

Fig. 5A

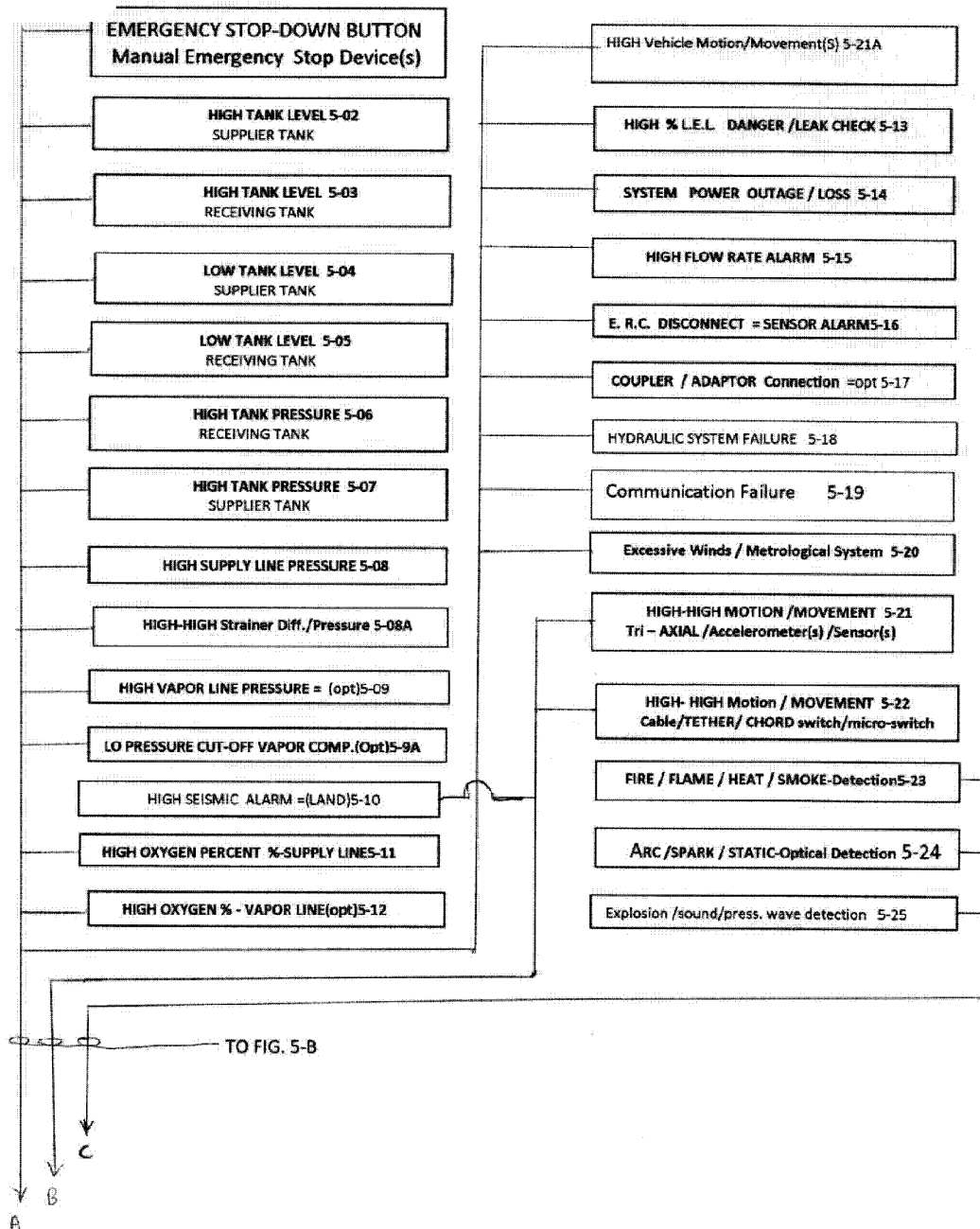
Process Control Safety Emergency Stop/Shut-down INPUTS Instrumentated

Fig. 5B

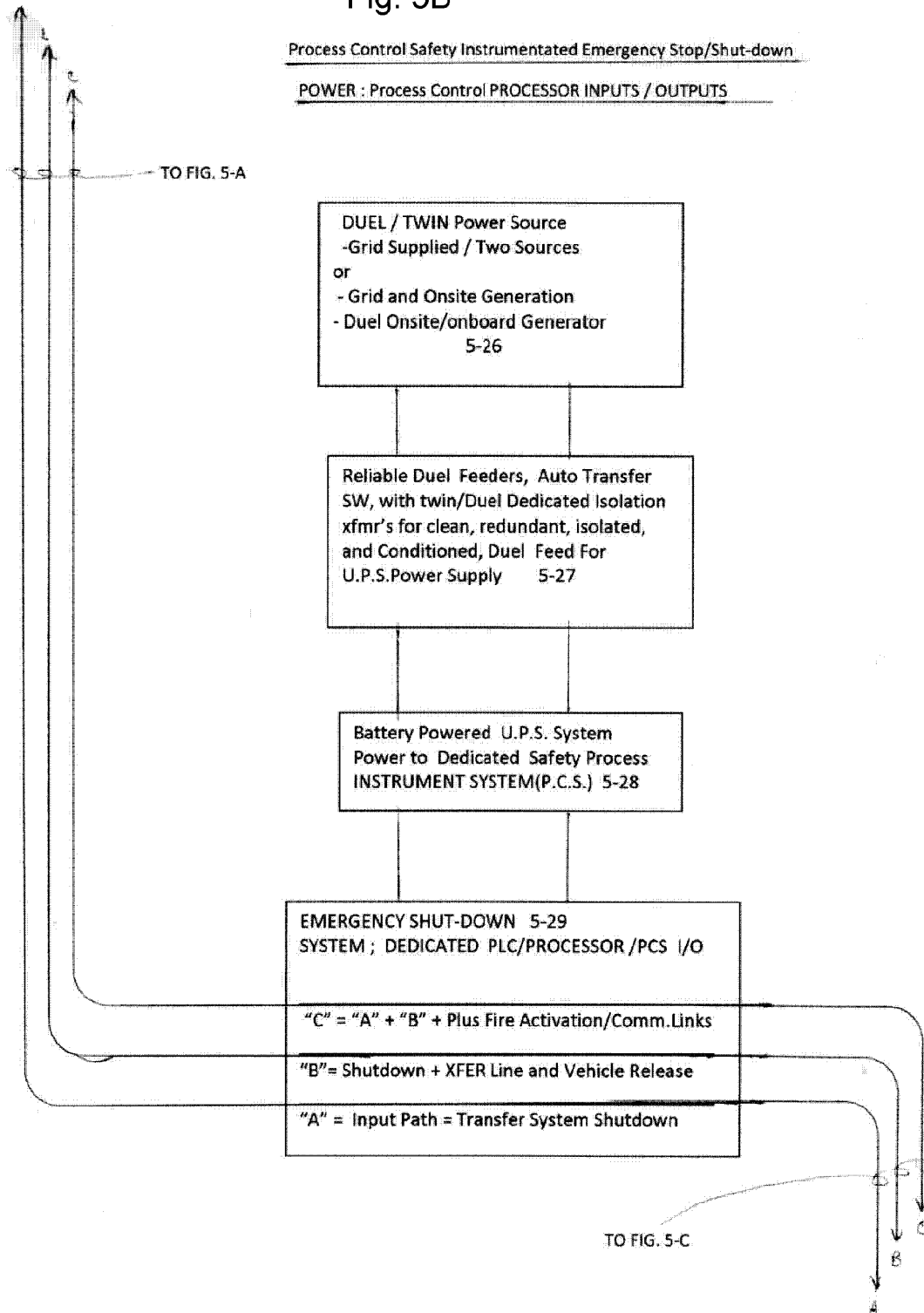
Process Control Safety Instrumented Emergency Stop/Shut-downPOWER : Process Control PROCESSOR INPUTS / OUTPUTS

Fig. 6A

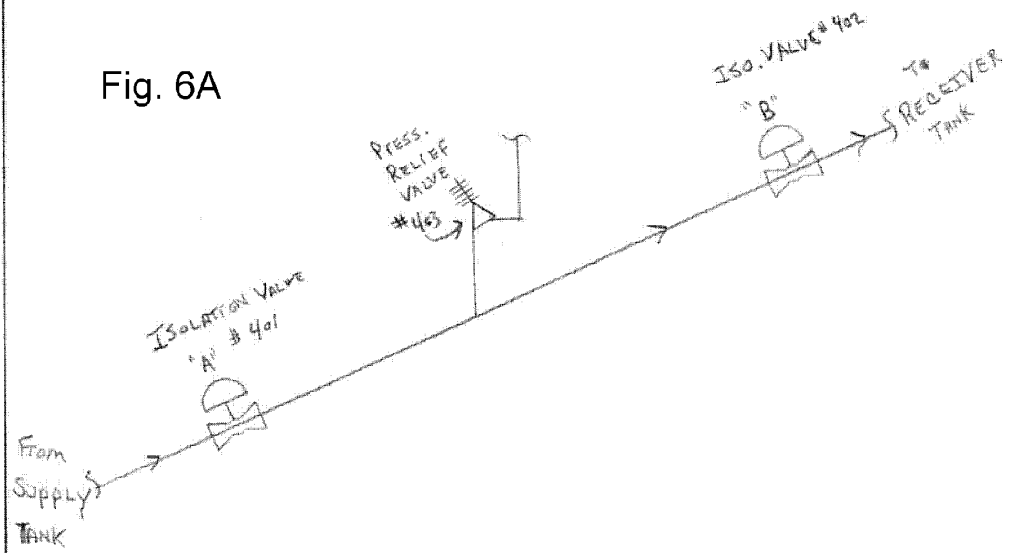


Fig. 6B

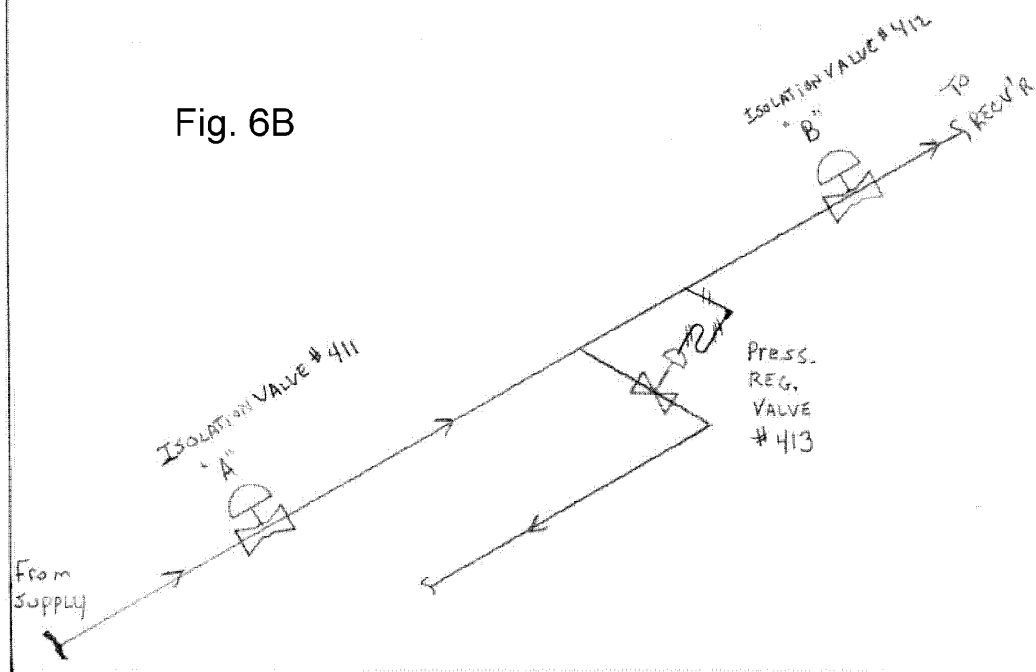


Fig. 6C

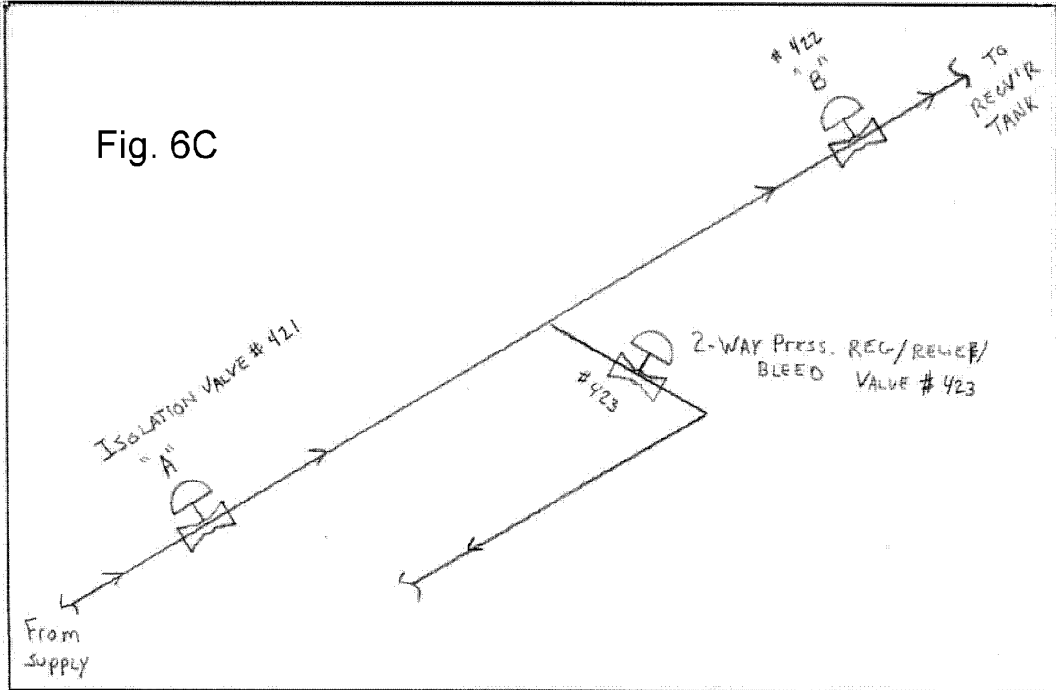


Fig. 6D

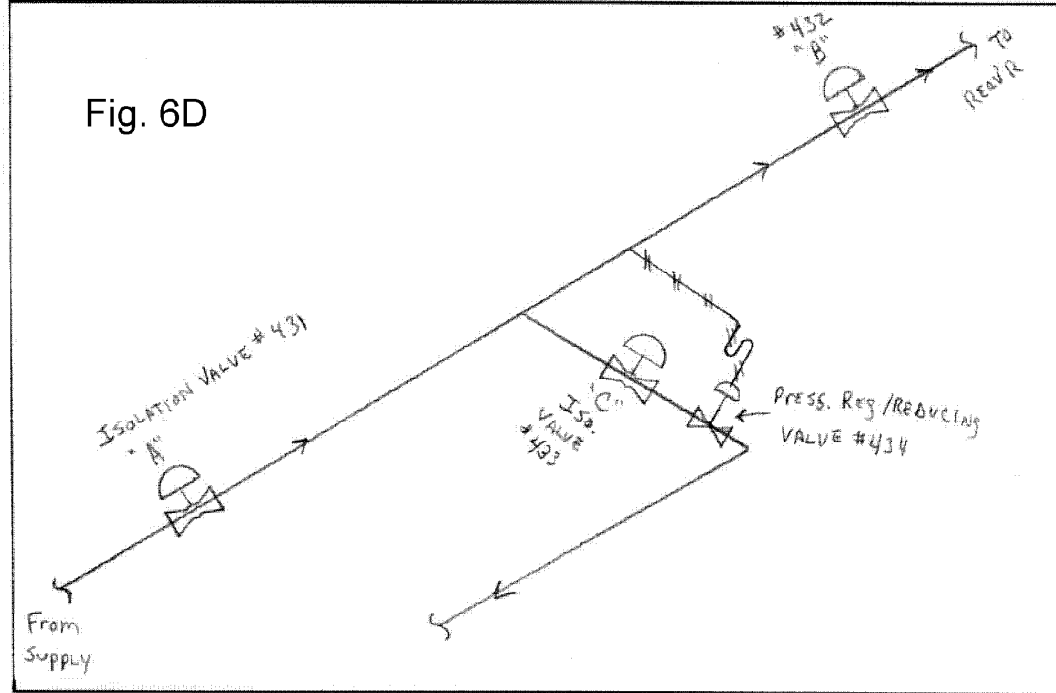


Fig. 6E

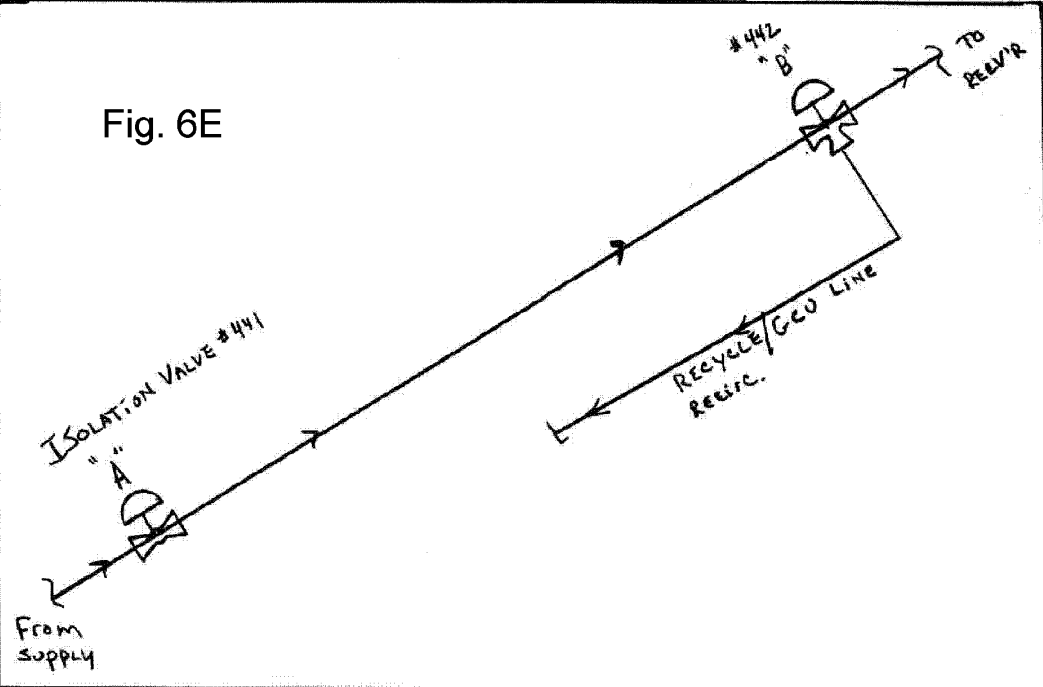
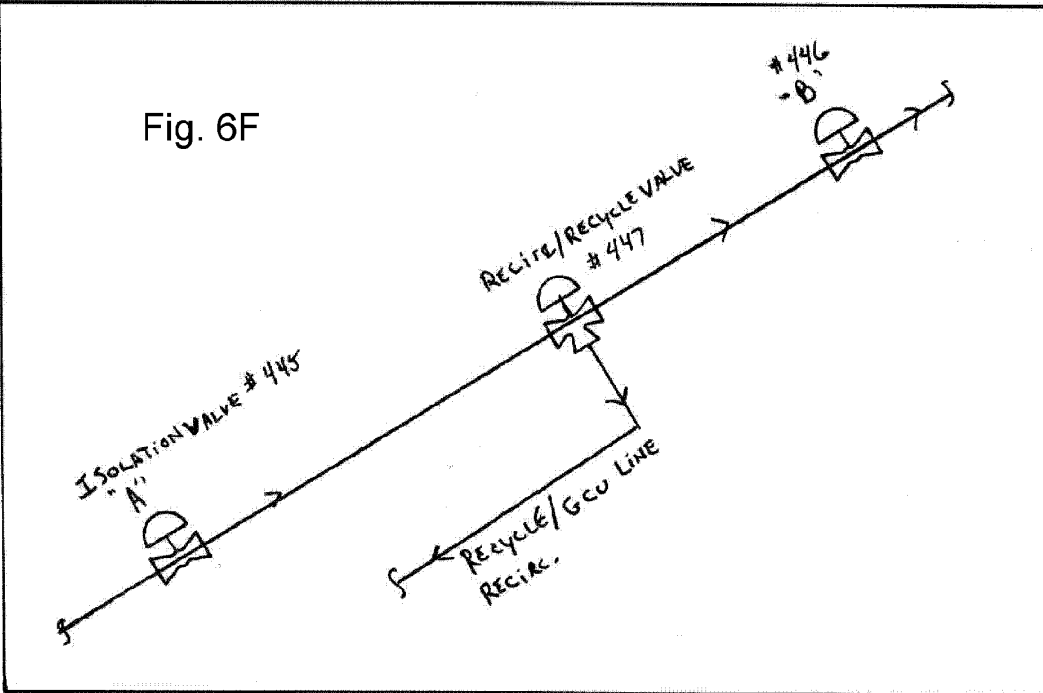


Fig. 6F



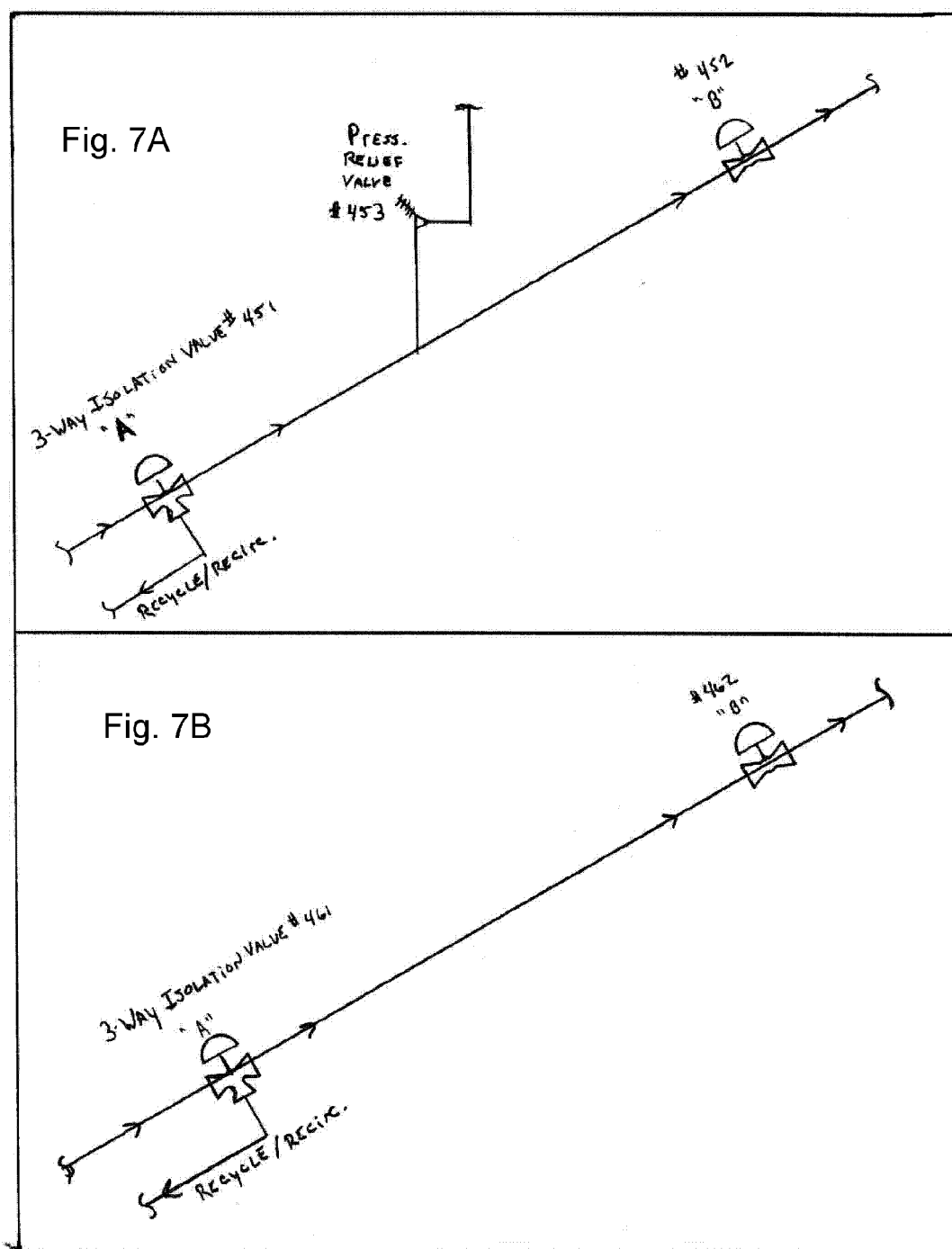


Fig. 7C

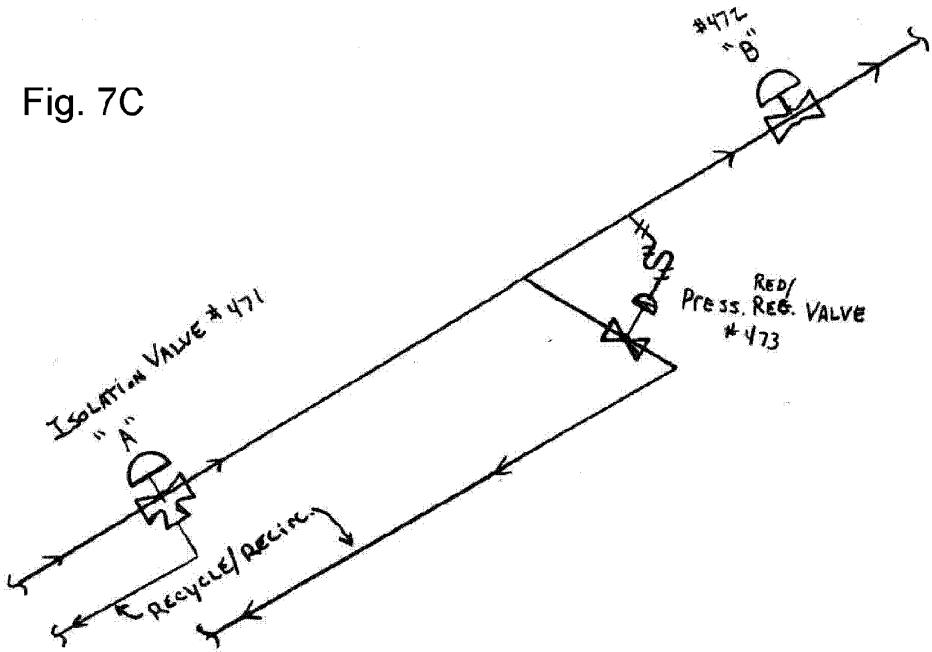


Fig. 7D

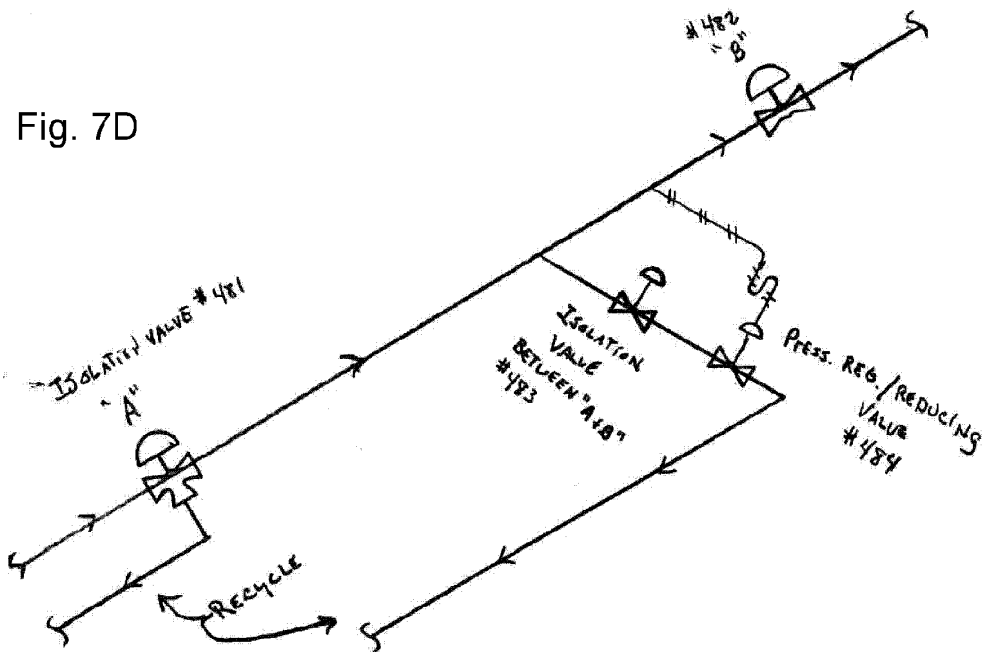


Fig. 7E

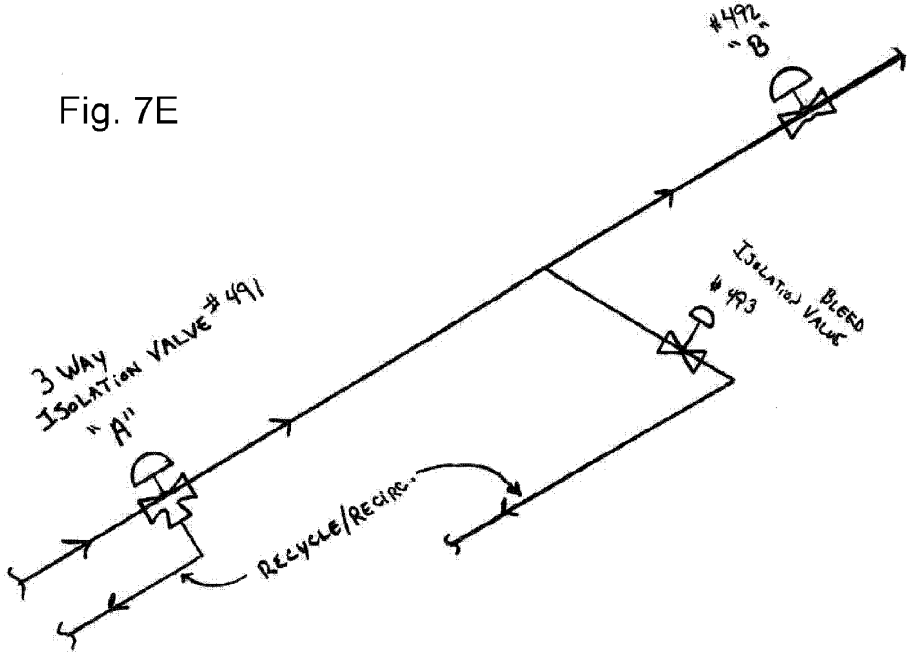


Fig. 7F

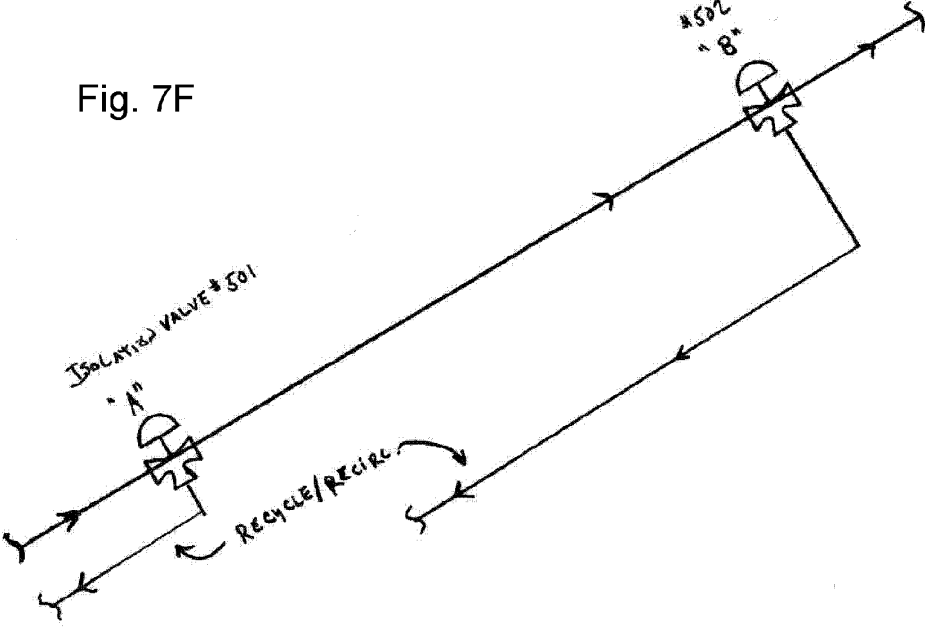


Fig. 7G

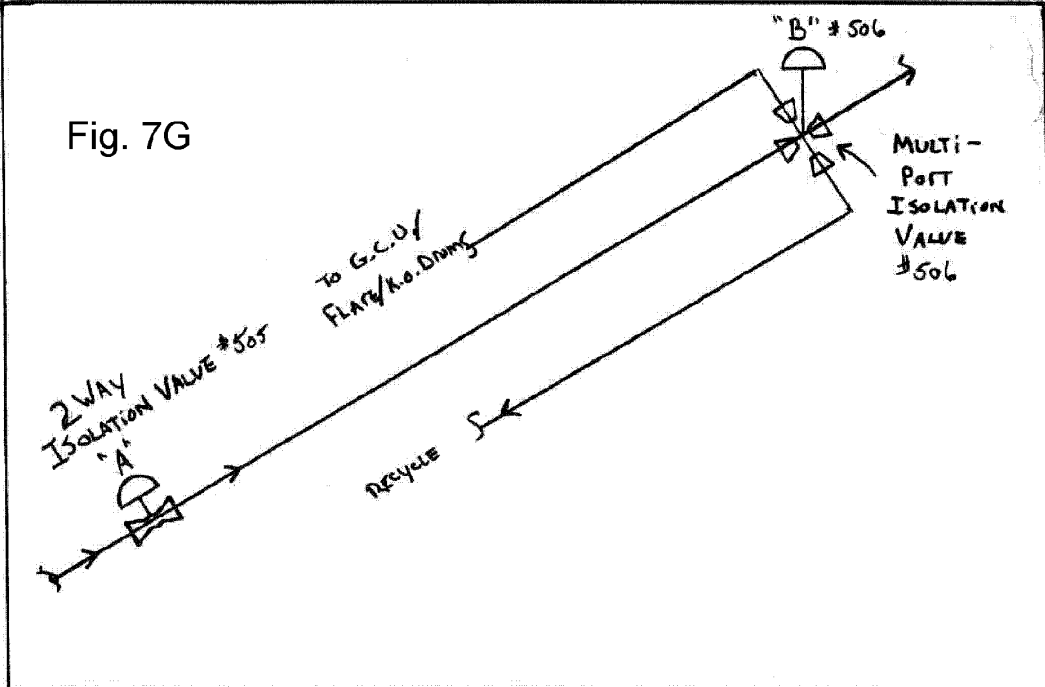


Fig. 7H

